

Title (en)  
Detection of transitions between text and non-text frames in a videostream

Title (de)  
Erkennung von Übergängen zwischen Text- und Nichttext-Rahmen in einem Videostrom

Title (fr)  
Détection de transitions entre le texte et les trames sans texte dans un flux vidéo

Publication  
**EP 2445205 A1 20120425 (EN)**

Application  
**EP 11185705 A 20111019**

Priority  
US 90804810 A 20101020

Abstract (en)  
Detecting the start of a credit roll within video program may allow for the automatic extension of video recordings among other functions. The start of the credit roll may be detected by determining the number of text blocks within a sequence of frames and identifying a point in the sequence of frames where a difference between the number of text blocks in frames occurring before the point and the number of text blocks in frames occurring after the point is greatest and exceeds a specified threshold. Text blocks may be identified within each frame by partitioning the frame into one or more segments and recording the segments having a pixel of a sufficiently high contrast. Contiguous segments may be merged or combined into single blocks, which may then be filtered to remove noise and false positives. Additional content may be inserted into the credit roll frames.

IPC 8 full level  
**G06K 9/32** (2006.01); **G11B 27/034** (2006.01); **G11B 27/036** (2006.01); **H04N 5/76** (2006.01)

CPC (source: EP US)  
**G06V 20/635** (2022.01 - EP US); **G11B 27/034** (2013.01 - EP); **G11B 27/036** (2013.01 - EP); **H04N 5/445** (2013.01 - US); **H04N 5/76** (2013.01 - EP US); **H04N 21/4316** (2013.01 - EP US); **H04N 21/4334** (2013.01 - EP US); **H04N 21/44008** (2013.01 - EP US); **H04N 21/4583** (2013.01 - EP US); **H04N 21/47214** (2013.01 - EP US); **H04N 21/488** (2013.01 - EP US); **H04N 21/812** (2013.01 - EP US); **G11B 27/034** (2013.01 - US); **G11B 27/036** (2013.01 - US)

Citation (search report)  
• [XPI] US 2011211812 A1 20110901 - TZOUKERMANN EVELYNE [US], et al  
• [XI] US 2008134251 A1 20080605 - BLINNIKKA TOMI [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2445205 A1 20120425**; **EP 2445205 B1 20191204**; CA 2755538 A1 20120420; US 10440305 B2 20191008; US 11134214 B2 20210928; US 2012099795 A1 20120426; US 2015229867 A1 20150813; US 2018295313 A1 20181011; US 2020021770 A1 20200116; US 2022070405 A1 20220303; US 8989499 B2 20150324; US 9843759 B2 20171212

DOCDB simple family (application)  
**EP 11185705 A 20111019**; CA 2755538 A 20111019; US 201514625981 A 20150219; US 201715808443 A 20171109; US 201916555743 A 20190829; US 202117407500 A 20210820; US 90804810 A 20101020